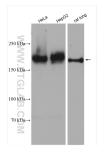
For Research Use Only

Integrin alpha 1 Polyclonal antibody Catalog Number: 29042-1-AP 2 Publications

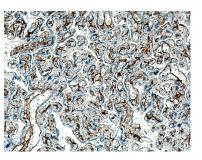


Basic Information	Catalog Number: 29042-1-AP	GenBank Accession M BC137121	lumber:	Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 350 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG30613	GeneID (NCBI): 3672 UNIPROT ID: P56199 Full Name: integrin, alpha 1 Calculated MW: 1179 aa, 131 kDa Observed MW: 180 kDa		Recommended Dilutions: WB 1:500-1:2000 IHC 1:300-1:1200 IF-P 1:50-1:500 IF-Fro 1:50-1:500	
Applications	Tested Applications: WB, IHC, IF-P, IF-Fro, ELISA		Positive Controls: WB : HeLa cells, HepG2 cells, rat lung tissue		
	Cited Applications: WB		IHC : human	placenta tissue, human tonsillitis tissue	
	Species Specificity:		IF-P : human	placenta tissue,	
	human, rat		IF-Fro: mous	e spleen tissue,	
	Cited Species: human				
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen			
Background Information	The integrins are a superfamily of cell adhesion receptors that bind to extracellular matrix ligands, cell-surface ligands, and soluble ligands (PMID: 17543136). They are transmembrane αβ heterodimers and at least 24 distinct integrin heterodimers are formed by the combination of 18 α and eight β known subunits (PMID: 17543136; 20029421). In addition to mediating cell adhesion, integrins also play important roles in modulating signal transduction pathways that control cellular responses including migration, proliferation, differentiation, and apoptosis (PMID:19118207). Integrin alpha-1 (ITGA1, CD49a) combines with the beta 1 subunit (ITGB1, CD29) to form a cell-surface receptor for collagen and laminin. This receptor is involved in cell-cell adhesion and may play a role in inflammation and fibrosis. Integrin alpha-1 is a transmembrane glycoprotein with an apparent molecular weight of 180-250 kDa, larger than the calculated molecular weight of 131 kDa (PMID: 2475259; 3257425; 11557277; 18840653).				
	weight of 180-250 kDa, larger than th	ne calculated molecula	r weight of 131		
	weight of 180-250 kDa, larger than th	ne calculated molecula	r weight of 131		
Notable Publications	weight of 180-250 kDa, larger than the 18840653).	med ID Journ		kDa (PMID: 2475259; 3257425; 11557277 Application	
Notable Publications	weight of 180-250 kDa, larger than the 18840653).			kDa (PMID: 2475259; 3257425; 11557277	
Notable Publications	weight of 180-250 kDa, larger than the 18840653). Author Pub Mengru Bai 390	med ID Journ 35165 PeerJ		kDa (PMID: 2475259; 3257425; 1155727; Application	
Notable Publications Storage	weight of 180-250 kDa, larger than the 18840653). Author Pub Mengru Bai 390 Binbin Li 359 Storage: Storage Buffer: PBS with 0.02% sodium azide and 50 Storage and 50	med ID Journ 135165 PeerJ 150911 Devel ter shipment.	al	kDa (PMID: 2475259; 3257425; 11557277 Application WB	
	weight of 180-250 kDa, larger than the 18840653).	med ID Journ 135165 PeerJ 150911 Devel ter shipment.	al	kDa (PMID: 2475259; 3257425; 11557277 Application WB	
Storage	weight of 180-250 kDa, larger than the 18840653). Author Pub Mengru Bai 390 Binbin Li 359 Storage: Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C so	med ID Journ 35165 PeerJ 50911 Devel ter shipment.	al opment	kDa (PMID: 2475259; 3257425; 1155727 Application WB	

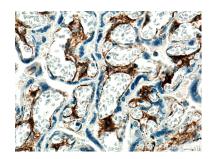
Selected Validation Data



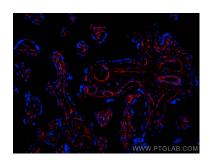
Various lysates were subjected to SDS PAGE followed by western blot with 29042-1-AP (Integrin alpha-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



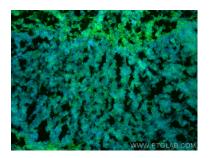
Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 29042-1-AP (Integrin alpha-1 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 29042-1-AP (Integrin alpha-1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using Integrin alpha-1 antibody (29042-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse spleen tissue using Integrin alpha-1 antibody (29042-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).